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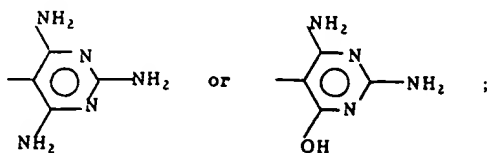
JO 3167270

JUL 1991

<p>91-256722/35 E21 G02 MITU 28.11.89 MITSUBISHI KASEI CORP *JO 3167-270-A 28.11.89-JP-308396 (19.07.91) C09d-11 Ink with rapid drying, high density, sharp image and storage stability - contains aq. medium, naphthol (di)sulphonate trisazo dye, and one of polyvinyl alcohol, hydroxyethyl cellulose and/or ethanolamine C91-111394</p>	<p>E(10-B3B, 10-C4J, 21-B7) G(2-A4A, 2-A4B)</p>
<p>An ink comprises an aq. medium(s), a cpd. of formula (I) and at least one of polyvinyl alcohol with a polymsn. degree of 200-1000 and a saponification degree of 80-90%, hydroxyethyl cellulose and/or mono-, di- or triethanolamine acetic acid salts:</p> <div data-bbox="267 945 763 1102"> <p style="text-align: center;">(I)</p> </div> <p>A and B = opt. subst. phenyl or naphthyl;</p>	<p>C =</p> <div data-bbox="925 714 1429 1155"> </div>

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M = alkali metal, ammonium or organic amine; and
n = 0 or 1.

USE/ADVANTAGES

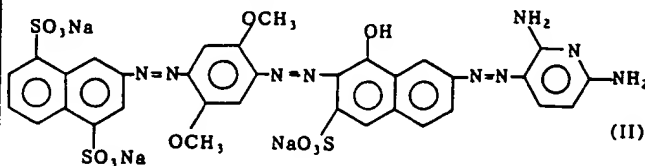
The invention provides inks with rapid drying, excellent printing quality, sharp contour, high density, signal responsibility, droplets forming, jetting and storage stability and long continuous recording properties without bleeding even printed on plain paper for ink jet recording and writing instruments, giving printed images with light, weather and water resistance.

PREFERRED COMPOSITION

The contents of a cpd. of formula (I) and the polyvinyl alcohol, hydroxyethyl cellulose and/or the mono-, di- and/or triethanolamines in the ink are 0.2-12 and 0.2-2, 0.1-1 and/or 2-7 wt. %.

EXAMPLE

A mixt. of 3 wt. % of a cpd. of formula (II), 20 wt. % diethylene glycol as an aq. medium, 1.5 wt. % polyvinyl alcohol with a polymsn. degree of 800-900 and a saponification degree of 85% and 75.5 wt. % water is mixed well to dissolve and filtered with a 'Teflon filter' (RTM) with a bore dia. of 1 μ m under pressure and the filtrate is deaerated to give an ink.



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